**Lavanya Duvvuru**   
**Performance Engineer/ Test Lead**



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**PROFESSIONAL SUMMARY:**

* 12 years of experience leading in analysis, design and setting up IT projects with the specific focus on performance testing, Automation testing and functional testing. Lead the team (offshore/onshore) technically and ensure the delivery of all aspects of the project. Strong working experience in Agile and Waterfall methodologies of Software Development Life Cycle and Testing Methodologies from requirement gathering to test execution documentation.



* Strong knowledge of Performance testing lifecycle with experience in Non-functional Business Requirement gathering and analysis, feasibility & POC, Detailed Test Planning, Test script creation, Test Execution, Analyzing Performance Bottleneck and Defect Management. Expertise in creating performance test scripts using Microfocus LoadRunner, K6, NeoLoad and JMeter tool. Vast experience in creating comprehensive test artifacts like performance test plan and custom-made executive summary reports.
* Strong experience in defining the performance workload patterns, estimation matrix and determine/ verify performance test needs. Expertise in creating and customizing LoadRunner scripts, Jmeter, NeoLoad and K6 (web HTTP/HTML, Truclient, webservices, mobile protocol) with Parametrization, Correlation, Transaction naming and validation. Conducted exhaustive performance test scenarios like load, stress, endurance, volume, capacity, fail-over, benchmark testing across various geographic locations to verify the acceptable system performance, scalability, and stability.
* Vast experience in client-side performance testing tools like Webpage test, Yslow etc. and captured detailed client-side metrics. Good knowledge in performance monitoring tools like AppDynamics, Dynatrace, New Relic, Splunk to trace, identify, and resolve application issues/ performance bottlenecks.
* Very good understanding and proficiency of JVM, GC processes, Heap dump and thread dump analysis, Load balancer parameters. Good knowledge in understanding and reading AWR reports. Assist DBA to troubleshoot DB performance issues. Expertise in using ELK dashboards to analyze and identify user logs.
* Good hands-on experience in other tools like Selenium, SoapUI, Postman, Fiddler, Wireshark, JIRA, ALM, Rally.
* Great expertise in Cloud testing with Sauce Labs. Great expertise in AWS (Amazon web service) with CI\CD (Jenkins) and in Azure DevOps with Pipeline with Docker.
* Experience in automating Mobile Test cases (Android and IOS) using Appium with Page Object model.
* Co-ordinated and collaborated with multiple teams to triage/trouble shoot performance defects and conduct root cause analysis. Identifying the manual work and automating those using different technologies – Java script, Groovy, Python and selenium frame works. Conducted training sessions for peers/ team members and contributed to performance testing methodologies and improved self-learning quotient.
* Responsible for delivering the project as per customer requirements within the given time. Strong analytical, problem solving and Presentation Skills with strong Interpersonal and organization skills.

**Technical Skills:**

* Domain skills: Insurance, HealthCare, Telecom and Banking.
* Programming skills: C, C++, Java, Groovy, Python, XML, JSON, HTML, REST, and JavaScript .
* Databases: SQL, Oracle, MySQL, SQL Server.
* Cloud Computing: AWS, Azure.
* Non-functional Testing Tools: LoadRunner, JMeter, K6, NeoLoad, Fiddler, SOAP UI, Performance Center.
* Monitoring Tools: Dynatrace, New Relic, AppDynamics, Splunk, Grafana, InfluxDB, Kubernetes.
* Functional Testing Tools: Tosca, Selenium, Appium,TestNG, Git, Maven, Postman, Swagger, Jenkins, RPA-AA.
* Defect tracking Tools: JIRA, Rally, HP ALM.

**CERTIFICATIONS:**

* Tricentis Tosca Automation Specialist.
* AZ- 900 Microsoft Azure Fundamentals.
* ISTQB Certified Tester Foundation Level .
* PGDCA (Post graduate diploma in computer applications).
* Certified JMeter Performance Tester.
* Certified Performance Engineering (Level 1).
* Python Associate Certification.
* Certified DevOps Professional.
* Kanban certification.

**PROFESSIONAL EXPERIENCE:**

**PWC, Dallas, TX January 2022 to Present**

**Technical Test Lead / Performance Engineer**

* Technical meetings with the application team, stake holders to understand performance test requirements.
* Design the performance test strategy and plan. Prepare JMeter scripts, VuGen test script for respective applications.
* Script enhancements like parameterization, logical conditions, Variable Extraction (correlation), Assertions for JMeter and Load Runner scripts.
* Experience in developing and scheduling various Spark Streaming / batch Jobs using python (spark) and Scala.
* Create and execute scenarios as per workload model for benchmarking to optimize Application configuration
* Capacity planning and run the Baseline tests, load, stress, scalability, endurance testing against Underwriter Desktop applications. Good experience on Test Automation using Selenium Web Driver.
* Prepared automation test scripts to validate various functionalities using Selenium WebDriver using Java.
* Run JMeter tests in non-GUI mode in distribution test model (Master-Slave).
* Incorporate JMeter Listeners to capture test results.
* Standardize results directory any maintain baseline test result sheets to analyze and compare them with historical values. Monitor & measure the client/server-side performance metrics using Splunk .
* Identify key performance bottlenecks in the application and perform end-to-end root cause analysis on these bottlenecks to pinpoint the reasons. Also, provide analysis reports to the client/stakeholders with recommendations to improve performance. Collate the Performance data & analyzes the data gathered towards application performance, availability and capacity with the goals of ensuring the optimal user experience and reducing hardware costs.

**Technical Skills:** JMeter, Blaze meter, New Relic, Splunk, Dynatrace, Kubernetes, Grafana, PYTHON, Influx DB, Jira, Appium

**Securian, Minneapolis, MN May 2020 to December 2021**

**QA Technical lead / Performance Engineer**

* Working as a Technology test lead in the ETQA team.
* Involved in gathering non-functional requirements, preparing Test plan and strategy.
* Control M is used for scheduling the batch jobs and monitoring the elapsed time with SAP T Codes.
* Developed utility for creating high volume records file using python and makes the data integrity using the logic, which used in batch test execution. Able to deep dive, analyze performance bottlenecks, and analyze detailed server statistics.

**Technical Skills:** S4Hana, Data foundation, SAP Launchpad, Neoload, Python, Control M, SAP GUI

**Northwestern Mutual, Milwaukee, WI January 2019 to April 2020**

**Sr Performance Test Analyst / Performance Engineer**

* Working as a performance test Analyst in the performance engineering team. Involved in gathering non-functional requirements, preparing Test plan and strategy. Preparing performance test scenarios using k6 performance testing tool.
* Execution of load/stress/Endurance/Scalability tests. Analyzing the performance test results through Grafana dashboards and monitoring the app, web and DB servers using APM tools like New Relic.
* Experience in Power Shell scripting for automation of technical activities.
* Using the Robotic Operating System (ROS) and Python programming language to control a collection of simultaneously working robots. Developed and maintained scripts for building, testing, and deploying applications using PowerShell and Python
* Worked in performance team and did testing using Northwestern internal tools and JMeter.
* Identifying potential performance bottlenecks and fine-tune the performance of applications.
* Training and mentoring the team on Kevlar-k6 framework.

**Technical Skills**: JMeter, Kevlar-K6, New Relic, Kubernetes, Grafana, Python, Influx DB,Appdynamics

**CareFirst, Baltimore, MD August 2017 to December 2018**

**Sr Performance Test Engineer**

* Involved in performance testing of various applications using tools like load runner.
* Involved in end-to-end testing activities like requirement gathering, test plan creation, script development, workload modelling, execution, analysis and identification of performance bottlenecks. Proficient in handling the entire load/performance testing independently, which involves lot of interaction with multiple components - developers, system administrators and DBA.
* Involved in performance engineering activities thread dump analysis for analysis of performance issues.
* Developed automation framework in SOAP UI for automating the web service tests. Developed automation with JMeter for the critical API calls and performed execution in NON-GUI mode for achieving the target throughput.
* Proficient in preparation of workload assumptions document in sync with the existing or projected production usage statistics.

**Technical Skills:** Load Runner, JMeter, Team Quest, vSphere, Splunk, Soap UI, Groovy, JIRA and Dynatrace

**Larsen & Toubro InfoTech Ltd, India Nov 2016 to July 2017**

**Test Engineer**

* Involved in gathering the performance requirements and understand the business flows.
* Tested web services and Web UI flows with Load runner. Enhanced script with correlation, parametrization, checkpoints, transaction point and error handling etc. Executed the load tests using performance Center.
* Shared the performance summary report to stockholders.

**Technical Skills:** Load Runner, New Relic. Jira

**Comex, India Aug 2009 to Sep 2014**

**QA Analyst**

* Analyze business requirements; participate in onsite-offshore brainstorming interactions.
* Worked with development team to understand technical design and prepare the test plan for the Functional Testing for all the modules.
* Prepared Test artifacts such as Requirement traceability matrix, test strategy, test plan which included testing objectives, test phases, test scenarios, test cases after analysis of the Business rules.
* Using Selenium automation framework developed automated test scripts, modify the scripts and execute the respective scripts. Experience with Test Automation tools such as Selenium, TestNG, Jmeter, Junit.
* Worked with TDM team for masked suitable test data for all the modules and populate test data using Test data utilities which aggregate the data in external test data file with respect to the testing environments
* Reviewed the identified defects through automation, analyze the defect root cause and reported with development team for faster closure.

**Technical Skills**: Selenium WebDriver, HP ALM, SQL, PL/SQL Oracle, MS - Office Tools, Java/J2EE, Windows Server 2003.

**EDUCATIONAL BACKGROUND:**

* Master of Science from Periyar University, India.
* Bachelor of Science from SV University, India in 2004.